9th Class 2021				
Math (Science)	Group-II	Paper-		
Time: 20 Minutes	(Objective Type)	Max Marke.		
Note: Four possible question are go correct, fill that Marker or Per	e answers A, B, C given. The choice of t circle in front of n ink in the answe nore circles will resu	which you think is that question with r-book. Cutting a		
(a) 3	(b) $\frac{1}{3}$			
(c) 35 ✓	(d) None of t	hese		
2- H.C.F. of $a^2 - b^2$ and $a^3 - b^3$ is				
(a) a - b ✓	(b) a + b	712-1		
(c) $a^2 + ab +$	b^2 (d) $a^2 - ab +$	b ²		
3- The right bisectors of the three sides of a triangle				
(c) Concurrer	t (b) Collinear			
4- Point (2, -3) lie	es in quadrant:			
(a) I	(b) II			
(c) III	(d) IV ✓			
5- The product o	$f[x \ y]\begin{bmatrix} 2\\-1 \end{bmatrix}$ is:			
(a) $[2x + y]$	(b) $[x - 2y]$			
(c) [2x - y] ✓	, ,			
6- If x is no larger than 10, then				
(a) x≥8	(b) $x \le 10$ ✓			
(c) x < 10	(d) $x > 0$			

7.	A point equidistant from the end points of segment is on its	a line
ď.	(a) Bisector	
	(b) Right bisector ✓	
	(c) Perpendicular	
	(d) Median	
8-	Write 4 ^{2/3} with radical sign:	
	(a) $\sqrt[3]{4^2}$ (b) $\sqrt{4^3}$	
	(c) $-2\sqrt{4^3}$ (d) $\sqrt{4^6}$	
9-	log e =, where (e ≈ 2.718).	
	(a) 0 (b) 0.4343	
	(c) ∞ (d) 1 ✓	
10-	Adj of $\begin{bmatrix} 1 & 2 \\ 0 & -1 \end{bmatrix}$ is:	
	(a) $\begin{bmatrix} -1 & -2 \\ 0 & 1 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & -2 \\ 0 & -1 \end{bmatrix}$	
	(c) $\begin{bmatrix} -1 & 2 \\ 0 & -1 \end{bmatrix}$ (d) $\begin{bmatrix} -1 & 0 \\ 2 & 1 \end{bmatrix}$	
1-	H.C.F. of $x^2 - 5x + 6$ and $x^2 - x - 6$ is:	
	(a) $x - 3 \checkmark$ (b) $x + 2$	
	(c) $x^2 - 4$ (d) $x - 2$	
2-	[-, -, and (-, -) [-, -]	
1	(a) (1, 1) \((b) (1, 0)	
3_	(c) $(0, 1)$ (d) $(-1, -1)$ $a^3 + b^3 = $	
	(a) $(a - b)(a^2 + ab + b^2)$.9
	(b) $(a + b)(a^2 - ab + b^2) \checkmark$	
	(c) $(a - b)(a^2 - ab + b^2)$	٠.
	(d) $(a - b)(a^2 + ab - b^2)$	

14- The value of $log \left(\frac{p}{q}\right)$ is :

- (a) log p log q ✓
- (b) $\frac{\log p}{\log q}$
- (c) log p + log q
- (d) log q log p

15- Factors of a4 - 4b4 are _____

- (a) (a b), (a + b), $(a^2 + 4b^2)$
- (b) $(a^2 2b^2)$, $(a^2 + 2b^2)$
- (c) (a b), (a + b), $(a^2 4b^2)$
- (d) (a-2b), (a^2+2b^2)

